



Australian Government

Assessment Requirements for AURVTN133 Service and repair air compressors and components

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with AUR Automotive Retail, Service and Repair Training Package Version 6.0

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- service and repair at least two different air compressors, in which the work must involve the following components:
 - air compressor motor
 - air compressor tank
 - drive system
 - pressure regulator
 - water trap and filters
 - air lines and fittings.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- methods to locate and interpret information required to service and repair air compressors and components, including:
 - information provided by customer and supervisors
 - manufacturer specifications and procedures or equivalent documentation
- workplace procedures required to service and repair air compressors and components, including:
 - establishing serviceability of tools and equipment
 - documentation and reporting procedures, including:
 - recommendations for required service, repair, replacement or adjustment
 - housekeeping procedures, including:
 - examination of tools and equipment
 - storage of equipment

- identification, tagging and isolation of faulty equipment
- disposal of excess materials
- recycling procedures
- work health and safety (WHS) requirements relating to servicing and repairing air compressors and components, including procedures for:
 - selecting and using personal protective equipment (PPE)
 - working with compressed air
 - working with rotating shafts, belts and pulleys
- environmental requirements, including procedures for trapping, storing and disposing of air compressor fluids released during service and repair process
- types of air compressors and principles of operation, including:
 - reciprocating compressors
 - rotary screw compressors
 - vane
 - diaphragm
 - single and two-stage compressors
- identification, function and operation of air compressor system components, including:
 - air compressor motor
 - air compressor tank
 - drive system
 - pressure regulator
 - water trap and filters
 - air lines and fittings
- types and applications of compressor lubricants
- procedures for final inspection and adjustment of air compressors and components, including:
 - compressor cut-out pressure
 - minimising unintended air loss
 - automatic timing switch adjustment.

Assessment Conditions

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessment must include direct observation of tasks.

Where assessment of competency includes third-party evidence, individuals must provide evidence that links them to the air compressors that they have serviced and repaired, e.g. repair orders.

Assessors must verify performance evidence through questioning on skills and knowledge to ensure correct interpretation and application.

The following resources must be made available:

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- automotive workplace or simulated workplace
 - workplace instructions
 - manufacturer air compressor specifications
 - two different operating air compressors and components as specified in the performance evidence requiring service and repair
 - tools, equipment and materials appropriate for servicing and repairing air compressors and components.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume Implementation Guide is found on VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b4278d82-d487-4070-a8c4-78045ec695b1>